

SEQUENCE LISTING

<110> Saatcioglu, Fahri

<120> Differentially Expressed Genes in Prostate Cancer

<130> Sequences for 586.02-PCT

<140>

<141>

<150> 60/135,325

<151> 1999-05-20

<150> 60/135,333

<151> 1999-05-20

<160> 21

<170> PatentIn Ver. 2.0

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

<400> 1

```
atggaaaacg aattgttctg ctcgggcgtc ctggtgcata cgcagtgggt gctgtcagcc 60
gcacactggt tccagaactc ctacaccata gggctgggcc tgcacagtct tgaggccgac 120
caagagccag ggagccagat ggtggaggcc agcctctccg tacggcaccc agagtacaac 180
agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaatccgt gtccgagtct 240
gacaccatcc ggagcatcag cattgcttcg cagtgccta cgcggggaa ctcttgctc 300
gtttctggct ggggtctgct ggcgaacggc agaatgccta cgtgctgca gtgctgaac 360
gtgtcggtgg tgtctgagga ggtctgcagt aagctctatg acccgctgta ccacccagc 420
atgttctgcg ccggcggagg gcaagaccag aaggactcct gcaacgggtga ctctgggggg 480
cccctgatct gcaacgggta cttgcagggc cttgtgtctt tcggaaaagc cccgtgtggc 540
caagttggcg tgccaggtgt ctacaccaac ctctgcaaat tcactgagtg gatagagaaa 600
accgtccagg ccagttaa                                     618
```

<210> 2

<211> 481

<212> DNA

<213> Homo sapiens

<400> 2

```
atggaaaacg aattgttctg ctcgggcgtc ctggtgcata cgcagtgggt gctgtcagcc 60
gcacactggt tccagaactc ctacaccata gggctgggcc tgcacagtct tgaggccgac 120
caagagccag ggagccagat ggtggaggcc agcctctccg tacggcaccc agagtacaac 180
```

```

agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaatccgt gtccgagtct 240
gacaccatcc ggagcatcag cattgcttcg cagtgcccta ccgcggggaa ctcttgccctc 300
gtttctggct ggggtctgct ggcgaacggg tgactctggg gggcccctga tctgcaacgg 360
gtacttgca ggccttggtg ctttcggaaa agccccgtgt ggccaagttg gcgtgccagg 420
tgtctacacc aacctctgca aattcactga gtggatagag aaaaccgtcc aggccagtta 480
a 481

```

<210> 3

<211> 702

<212> DNA

<213> Homo sapiens

<400> 3

```

atggaaaacg aattgttctg ctccggcgctc ctggtgcata cgcagtgggt gctgtcagcc 60
gcacactgtt tccagaactc ctacaccata gggctggggc tgcacagtct tgaggccgac 120
caagagccag ggagccagat ggtggaggcc agcctctccg tacggcacc cagagtacaac 180
agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaatccgt gtccgagtct 240
gacaccatcc ggagcatcag cattgcttcg cagtgcccta ccgcggggaa ctcttgccctc 300
gtttctggct ggggtctgct ggcgaacggg gagctcacgg gtgtgtgtct gccctcttca 360
aggaggtcct ctgcccagtc gcgggggctg acccagagct ctgcgtccca ggcagaatgc 420
ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct 480
atgaccgcgt gtaccacccc agcatgttct gcgccggcgg agggcaagac cagaaggact 540
cctgcaacgg tgactctggg gggggccctga tctgcaacgg gtacttgca ggccttggtg 600
ctttcggaaa agccccgtgt tggccaagtt ggcgtgccag gtgtctacac caacctctgc 660
aaattcactg agtggataga gaaaaccgtc caggccagtt aa 702

```

<210> 4

<211> 834

<212> DNA

<213> Homo sapiens

<400> 4

```

ggaatgagcc tggatccggg gagcccagag ggaagggctg ggaggcggga atcttgettc 60
ggaaggactc agagagtcct gacttgaaat ctacgccag tgctgagtct ctagtgaact 120
aagctcctac accatcgggc tgggcctgca cagtcttgag gccgaccaag agccagggag 180
ccagatggtg gaggccagcc tctccgtacg gcacccagag tacaacagac ccttgctcgc 240
taacgacctc atgctcatca agttggacga atccgtgtcc gagtctgaca ccatccggag 300
catcagcatt gcttcgcagt gccctaccgc ggggaactct tgccctcgtt ctggctgggg 360
tctgctggcg aacggtgaac tcacgggtgt gtgtctgccc tcttcaagga ggtcctctgc 420
ccagtgcggy gggctgaccc agagctctgc gtcccaggca gaatgcctac cgtgctgcag 480
tgcgtgaacg tgtcgggtgt gtctgaggag gtctgcagta agctctatga cccgctgtac 540
caccacagca tgttctgcgc cggcggaggg caagaccaga aggactcctg caacggtgac 600
tctggggggc ccctgatctg caacgggtac ttgcagggcc ttgtgtcttt cggaaaagcc 660
ccgtgtggcc aagttggcgt gccagggtgc tacaccaacc tctgcaaatt cactgagtgg 720
atagagaaaa ccgtccaggc cagttaactc tggggactgg gaacccatga aattgacccc 780
caaatacatc ctgcggaagg aattcaggaa tatctgatcc cagcccctcc tccc 834

```

<210> 5

<211> 440

<212> DNA

<213> Homo sapiens

<400> 5

```
ggaatgagcc tggatccggg gagcccagag ggaagggctg ggaggcggga atcttgcttc 60
ggaaggactc agagagccct gacttgaaat ctcagcccag tgctgagtct ctagtgaact 120
aagctcctac accatcgggc tgggcctgca cagtcttgag gccgaccaag agccagggag 180
ccagatggtg gagggccagcc tctccgtacg gcacccagag tacaacagac ccttgctcgc 240
taacgacctc atgctcatca agttggacga atccgtgtcc gagtctgaca ccatccggag 300
catcagcatt gcttcgcagt gccctaccgc ggggaactct tgcctcgttt ctggctgggg 360
tctgctggcg aacggcagaa tgcctaccgt gctgcagtgc gtgaacgtgt cgggtggtgtc 420
tgaggaggtc tgcagtaagc                                     440
```

<210> 6

<211> 457

<212> DNA

<213> Homo sapiens

<400> 6

```
ggctctggga ggaggacgga atgagcctgg atccggggag cccagagggga agggctggga 60
ggcgggaatc ttgcttcgga aggactcaga gagccctgac ttgaaatctc agcccagtgc 120
tgagtctcta gtgaactaag ctcctacacc atcgggctgg gcctgcacag tcttgaggcc 180
gaccaagagc cagggagcca gatggtggag gccagcctct ccgtacggca cccagagtac 240
aacagacctt tgctcgctaa cgacctcatg ctcatcaagt tggacgaatc cgtgtccgag 300
tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgctgg gaactcttgc 360
ctcgtttctg gctggggctt gctggcgaac ggcagaatgc ctaccgtgct gcagtgcgtg 420
aacgtgtcgg tgggtgtctga ggaggtctgc agtaagc                                     457
```

<210> 7

<211> 636

<212> DNA

<213> Homo sapiens

<400> 7

```
accacccag catgttctgc gccggcggag agcaagacca gaaggactcc tgcaacgtga 60
gagaggggaa aggggagggc aggcgactca ggggaagggg gagaaggggg agacagagac 120
acacagggcc gcatggcgag atgcagagat ggagagacac acagggagac agtgacaact 180
agagagagaa actgagagaa acagggaaat aaacacagga ataaagagaa gcaaaggaag 240
agagaaacag aaacagacat gggggaggca gaaacacaca cacatagaaa tgcagctgac 300
cttccaacag catggggcct gagggcggtg acctccaccc aacagaaaat cctcttataa 360
cttttgactc cccaaaaaac ctgactagaa atagcctact gttgacgggg gagccttacc 420
aataacataa atagtcgatt tatgcatacg ttttatgcat tcatgatata cttttgttgg 480
aattttttga tattttctaag ctacacagtt cgtctgtgaa tttttttaaa ttgttgcaac 540
tctcctaaaa ttttttctaa tgtgtttatt gaaaaaatc caagtataag tggacttgtg 600
cagttcaaac cagggttgtt caagggtcaa ctgtgt                                     636
```

<210> 8

<211> 618
 <212> RNA
 <213> Homo sapiens

<400> 8
 auggaaaacg aauguuucug cucgggcguc cuggugcauc cgcagugggu gcugucagcc 60
 gcacacuguu uccagaacuc cuacaccauc gggcuggggc ugcacagucu ugaggccgac 120
 caagagccag ggagccagau gguggaggcc agccucuccg uacggcaccc agaguacaac 180
 agaccuugc ucgcuaacga ccucaugcuc aucaaguugg acgaauccgu guccgagucu 240
 gacaccaucc ggagcaucag cauugcuucg cagugcccua ccgcggggaa cucuugccuc 300
 guuucuggcu ggggucugcu ggcgaacggc agaaugccua ccgugcugca gugcgugaac 360
 gugucggugg ugucugagga ggucugcagu aagcucuaua acccgugua ccaccccagc 420
 auguucugc ccggcgagg gcaagaccag aaggacuccu gcaacgguga cucugggggg 480
 cccugaucu gcaacgggua cuugcagggc cuugugucu ucggaaaagc cccguguggc 540
 caaguuggcg ugccaggugu cuacaccaac cucugcaau ucacugagug gauagagaaa 600
 accguccagg ccaguuaa 618

<210> 9
 <211> 480
 <212> RNA
 <213> Homo sapiens

<400> 9
 auggaaaacg aauguuucug cucgggcguc cuggugcauc cgcagugggu gcugucagcc 60
 gcacacuguu uccagaacuc cuacaccauc gggcuggggc ugcacagucu ugaggccgac 120
 caagagccag ggagccagau gguggaggcc agccucuccg uacggcaccc agaguacaac 180
 agaccuugc ucgcuaacga ccucaugcuc aucaaguugg acgaauccgu guccgagucu 240
 gacaccaucc ggagcaucag cauugcuucg cagugcccua ccgcggggaa cucuugccuc 300
 guuucuggcu ggggucugcu ggcgaacggg ugacucuggg gggcccuga ucugcaacgg 360
 guacuugcag ggccuugguc uuucggaaaa gcccugugug gccaaguugg cgugccaggu 420
 gucuacacca accucugcaa auucacugag uggauagaga aaaccgucca ggccaguuaa 480

<210> 10
 <211> 701
 <212> RNA
 <213> Homo sapiens

<400> 10
 auggaaaacg aauguuucug cucgggcguc cuggugcauc cgcagugggu gcugucagcc 60
 gcacacuguu uccagaacuc cuacaccauc gggcuggggc ugcacagucu ugaggccgac 120
 caagagccag ggagccagau gguggaggcc agccucuccg uacggcaccc agaguacaac 180
 agaccuugc ucgcuaacga ccucagcuca ucaaguugga cgaauccgug uccgagucug 240
 acaccauccg gagcaucagc auugcuucg agugcccua cgcggggaac ucuugccucg 300
 uuucuggcug gggucugcug gcgaacggug agcucacggg ugugugucug ccucuucaa 360
 ggagguccuc ugcccagucg cgggggugua cccagagcuc ugcguccag gcagaaugcc 420
 uaccgugcug cagugcguga acgugcggg ggugucugag gaggucugca guaagcucua 480
 ugacccgcug uaccacccca gcauguucug cgccggcgga gggcaagacc agaaggacuc 540
 cugcaacggg gacucgggg gggcccugau cugcaacggg uacuugcagg gccuuguguc 600

uuucggaaaa gccccguguu ggccaaguug gcgugccagg ugucuacacc aaccucugca 660
 aaucacuga guggauagag aaaaccgucc aggccaguua a 701

<210> 11
 <211> 830
 <212> RNA
 <213> Homo sapiens

<400> 11
 ggaugagacc uggauccggg gagcccagag ggaagggcug ggaggcggga aucuugcuuc 60
 ggaaggacuc agagaguccg acuugaaauc ucagcccagu gcugagucuc uagugaacua 120
 agcuccuaca ccaucgggcu gggccugcac agucuagagg ccgaccaaga gccagggagc 180
 cagaggugga ggccagccuc uccguacggc acccagagua caacagaccc uugcucgcua 240
 acgaccucau gcucaucaag uuggacgaau ccguguccga gucugacacc auccggagca 300
 ucagcauugc uucgcagugc ccuaccgagg ggaacucuuu ccucguuucu ggcugggguc 360
 ugcuggcgaa cgggaacuca cgggugugug ucugcccucu ucaaggaggu ccucugccca 420
 gucgccccgg cugacccaga gcucugcguc ccaggcagaa gccuaccgug cugcagugcg 480
 ugaacguguc gguggugucu gaggaggucu gcaguaagcu cuaugacccg cuguaccacc 540
 ccagcauguu cugcgccggc ggagggcaag accagaagga cuccugcaac ggugacucug 600
 gggggccccc gaucugcaac ggguaucugc agggccuugu gucuuucgga aaagccccgu 660
 guggccaagu uggcgugcca ggugucuaca ccaaccucug caaaucacu gaguggauag 720
 agaaaaccgu ccaggccagu uaacucuggg gacugggaa ccaugaaaau gacccccaaa 780
 uacaucugc ggaaggaauu caggaauauc ugaucccagc cccuccuccc 830

<210> 12
 <211> 438
 <212> RNA
 <213> Homo sapiens

<400> 12
 ggaugagacc uggauccggg gagcccagag ggaagggcgg gaggcgggaa ucuugcuucg 60
 gaaggacuca gagagcccug acuugaaauc ucagcccagu gcugagucuc uagugaacua 120
 agcuccuaca ccacgggcu ggcugcaca gucuagaggc cgaccaagag ccagggagcc 180
 agauggugga ggccagccuc uccguacggc acccagagua caacagaccc uugcucgcua 240
 acgaccucau gcucaucaag uuggacgaau ccguguccga gucugacacc auccggagca 300
 ucagcauugc uucgcagugc ccuaccgagg ggaacucuuu ccucguuucu ggcugggguc 360
 ugcuggcgaa cggcagaauu ccuaccgugc ugcagugcgu gaacgugucg guggugucug 420
 aggaggucug caguaagc 438

<210> 13
 <211> 455
 <212> RNA
 <213> Homo sapiens

<400> 13
 gcucugggag gaggacggaa ugagccugga uccggggagc ccagagggaa ggcugggag 60
 gcgggaauuc ugcucggaa ggacucagag agcccugacu ugaaucuca gccagugcu 120
 gagucucuag ugaacuaagc uccuacacca ucgggcuggg ccugcacagu cuugaggccc 180

accaagagcc agggagccag augguggagg ccagccucuc cguacggcac ccagaguaca 240
 acagacccuu gcucgcuaac gaccucaugc caucaaguug gacgaaucg uguccgaguc 300
 ugacaccauc cggagcauca gcauugcuuc gcagugcccu accgcgggga acucuugccu 360
 cguuucuggc ugaggucugc uggcgaacgg cagaauGCCU accgugcugc agugcgugaa 420
 cgugucggug gugucugagg aggucugcag uaagc 455

<210> 14
 <211> 635
 <212> RNA
 <213> Homo sapiens

<400> 14
 accacccag cauguucugc gccggcggag agcaagacca gaaggacucc ugcaacguga 60
 gagaggggaa aggggagggc aggcgacuca gggaagggug gagaaggggg agacagagac 120
 acacagggcc gcauggcgag augcagagau ggagagacac acagggagac agugacaacu 180
 agagagagaa acugagagaa acagggaau aaacacagga auaaagagaa gcaaagggaag 240
 agagaaacag aaacagacau gggggaggca gaaacacaca cacauagaaa ugcagcugac 300
 cuuccaacag cauggggccu gagggcggug accuccaccc aacagaaaau ccucuuaaua 360
 cuuuugacuc cccaaaaaac cugacuagaa auagccuacu guugacgggg gagccuacc 420
 aaauaacauaa auagucgauu uaugcauacg uuuuauGCAU ucaugauaua ccuuuguugg 480
 aaauuuuuga uauuucuaag cuacacaguu cgucugugaa uuuuuuuuuu uuguugcaac 540
 ucuccuaaaa uuuuuucuaa uguguuuuuu gaaaaaaauc caaguuuagu ggacuugugc 600
 aguucaaaacc agguuguuuc aagggucaac ugugu 635

<210> 15
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 15
 Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1 5 10 15
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20 25 30
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35 40 45
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
 50 55 60
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95

Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
 100 105 110

Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val
 115 120 125

Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
 130 135 140

Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
 145 150 155 160

Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
 165 170 175

Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
 180 185 190

Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 195 200 205

<210> 16

<211> 110

<212> PRT

<213> Homo sapiens

<400> 16

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1 5 10 15

Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20 25 30

Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35 40 45

Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
 50 55 60

Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80

Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95

Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 100 105 110

<210> 17
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 17

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1 5 10 15

Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20 25 30

Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35 40 45

Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
 50 55 60

Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80

Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95

Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Glu Leu
 100 105 110

Thr Gly Val Cys Leu Pro Ser Ser Arg Arg Ser Ser Ala Gln Ser Arg
 115 120 125

Gly Leu Thr Gln Ser Ser Ala Ser Gln Ala Glu Cys Leu Pro Cys Cys
 130 135 140

Ser Ala
 145

<210> 18
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 18

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1 5 10 15

Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20 25 30
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35 40 45
 Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50 55 60
 Glu Leu Thr Gly Val Cys Leu Pro Ser Ser Arg Arg Ser Ser Ala Gln
 65 70 75 80
 Ser Arg Gly Leu Thr Gln Ser Ser Ala Ser Gln Ala Glu Cys Leu Pro
 85 90 95
 Cys Cys Ser Ala
 100

<210> 19
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 19
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1 5 10 15
 Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20 25 30
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35 40 45
 Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50 55 60
 Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65 70 75 80
 Glu Val Cys Ser Lys
 85

<210> 20
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 20

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
1 5 10 15

Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
20 25 30

Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
35 40 45

Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
50 55 60

Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
65 70 75 80

Glu Val Cys Ser Lys
85

<210> 21

<211> 131

<212> PRT

<213> Homo sapiens

<400> 21

Ala Ile Ser Ser Gln Val Phe Trp Gly Val Lys Ser Tyr Lys Arg Ile
1 5 10 15

Phe Cys Trp Val Glu Val Thr Ala Leu Arg Pro His Ala Val Gly Arg
20 25 30

Ser Ala Ala Phe Leu Cys Val Cys Val Ser Ala Ser Pro Met Ser Val
35 40 45

Ser Val Ser Leu Phe Leu Cys Phe Ser Leu Phe Leu Cys Leu Phe Pro
50 55 60

Cys Phe Ser Gln Phe Leu Ser Leu Val Val Thr Val Ser Leu Cys Val
65 70 75 80

Ser Pro Ser Leu His Leu Ala Met Arg Pro Cys Val Ser Leu Ser Pro
85 90 95

Pro Ser Pro Pro Phe Pro Glu Ser Pro Ala Leu Pro Phe Pro Leu Ser
100 105 110

His Val Ala Gly Val Leu Leu Val Leu Leu Ser Ala Gly Ala Glu His
115 120 125

Ala Gly Val
130